SMART FOUNDATION D.O.O. BEOGRAD
Trgovačka 85, lokal 14
11030 Žarkovo – Čukarica
www.sfbg.rs
office@sfbg.rs

SFB SMART FOUNDATION DOO
BROJ P079/22
DATUM 29.08.2022.
BEOGRAD

CCECC ogranak Beograd
Batajnički drum 3, deo 6a
11080 Zemun

Stefan Pašić
065/85-99-052
zukipasic92@gmail.com

Jovan Anđelković
office.jovan@gmail.com
+381 60 3445 063

P079/22 **23/08/2022**

SUBJECT: Offer for construction of drilled piles Ø1200mm

OFFER

At your request, we are sending you an offer for the construction of **drilled piles Ø1200mm for the overpass from km 82+159,77 to km 110+351,21 and bridges at km 101+980,62 and at km 110+351,21** within the project of construction of the railway Novi Sad - Subotica - State border (Kelebia), in accordance with the bill of quantities below:

*shape and dimmension of the reinforcement basket to be agreed with Contractor before ordering

No.	Item in Tech. Spec.	Description	Unit	Quantity	Unit rate (€)	Price (€)
				A	B	A x B
	01	**ENABLING WORK**				
		Transport of pile-making machinery and equipment with all auxiliary tool, equipment and spare parts from the construktors to the construction site and back.	pcs.	1	6600	6.600,00
		Local transport of machines between working positions	pcs.	1	3000	3.000,00
		TOTAL FOR ENABLING WORK:				**9.600,00**

Gallery and wall at km 82+159,77

No.	Item in Tech. Spec.	Description	Unit	Quantity	Unit rate (€)	Price (€)
				A	B	A x B
	01	**CONSTRUCTION OF PILES**				
		Construction of bored piles of concrete class C30/37. The price covers boring, ~~supply~~ of concrete and concreting, all neccesery equipment and workmanship. Accounting shall be made per m' of a pile. Supply and installation of peinforcement is accounted separately. Piles with diameter of **Ø120** cm. **Price include drilling and installation of concrete, with excavator duty to remove drilled material from the machine and manipulation of the Contractor's equipment.The Client procures the concrete f co the tremie pipes.** **The Client loads and removes drilled material from the construction site.** **Drilling is calculated from the elevation of the working platform.** **Construction of piles shall adopt the technology of full pile casing.** **(46+8)x18.0m+16x20.0m+(8+16)x15.0m**	m'	1.652,00	131,00	216.412,00
		Drilling between the height of the working platform and the height of the pile. **The first meter is free of charge.**	m'	1,00	100,00	100,00
		~~Supply~~ and installation of reinforcement of class B500B for HW piles. Accounting shall be made per kg of installed reinforcement. **Installation only, the Client procures the reinforcement cages within reach of the drilling machine.** **Reinforcement to be continued the baskets will be continued by overlapping with simple welding or clips.** **Simple welding included in price.** **Clips are provided by the Client.**	kg	234.135,98	0,06	14.048,16
		Welding of reinforcement as per design on jobsite. **To be done by Certified welder.** **Includes making a canopy for carrying out work.**	kg	234.135,98	0,32	74.923,51
		TOTAL FOR CONSTRUCTION OF PILES Gallery and wall at km 82+159,77:				**305.483,67**

Overpass at km 98+149,00

No.	Item in Tech. Spec.	Description	Unit	Quantity	Unit rate (€)	Price (€)
				A	B	A x B
	01	**CONSTRUCTION OF PILES**				
		Construction of bored piles of concrete class C30/37. The price covers boring, ~~supply~~ of concrete and concreting, all neccesery equipment and workmanship. Accounting shall be made per m' of a pile. Supply and installation of peinforcement is accounted separately. Piles with diameter of **Ø120** cm. **Price include drilling and installation of concrete, with excavator duty to remove drilled material from the machine and manipulation of the Contractor's equipment.The Client procures the concrete f co the tremie pipes.** **The Client loads and removes drilled material from the construction site.** **Drilling is calculated from the elevation of the working platform.** **Construction of piles shall adopt the technology of full pile casing.** **30x18,0m+3x21,0m+21x24,0m**	m'	1.107,00	131,00	145.017,00
		Drilling between the height of the working platform and the height of the pile. **The first meter is free of charge.**	m'	1,00	100,00	100,00
		~~Supply~~ and installation of reinforcement of class B500B for HW piles. Accounting shall be made per kg of installed reinforcement. **Installation only, the Client procures the reinforcement cages within reach of the drilling machine.** **Reinforcement to be continued the baskets will be continued by overlapping with simple welding or clips.** **Simple welding included in price.** **Clips are provided by the Client.**	kg	85.138,54	0,06	5.108,31
		Welding of reinforcement as per design on jobsite. **To be done by Certified welder.** **Includes making a canopy for carrying out work.**	kg	85.138,54	0,32	27.244,33
		TOTAL FOR CONSTRUCTION OF PILES Overpass at km 98+149,00:				**177.469,64**

Overpass at km 101+132,33

No.	Item in Tech. Spec.	Description	Unit	Quantity	Unit rate (€)	Price (€)
				A	B	A x B
	01	**CONSTRUCTION OF PILES**				
		Construction of bored piles of concrete class C30/37. The price covers boring, ~~supply~~ of concrete and concreting, all neccesery equipment and workmanship. Accounting shall be made per m' of a pile. Supply and installation of peinforcement is accounted separately. Piles with diameter of **Ø120** cm. **Price include drilling and installation of concrete, with excavator duty to remove drilled material from the machine and manipulation of the Contractor's equipment.The Client procures the concrete f- co the tremie pipes.** **The Client loads and removes drilled material from the construction site.** **Drilling is calculated from the elevation of the working platform.** **Construction of piles shall adopt the technology of full pile casing.** **6x16,0m+18x15,0m**	m'	366,00	131,00	47.946,00
		Drilling between the height of the working platform and the height of the pile. **The first meter is free of charge.**	m'	1,00	100,00	100,00
		~~Supply~~ and installation of reinforcement of class B500B for HW piles. Accounting shall be made per kg of installed reinforcement. **Installation only, the Client procures the reinforcement cages within reach of the drilling machine.** **Reinforcement to be continued the baskets will be continued by overlapping with simple welding or clips.** **Simple welding included in price.** **Clips are provided by the Client.**	kg	27.059,77	0,06	1.623,59
		Welding of reinforcement as per design on jobsite. **To be done by Certified welder.** **Includes making a canopy for carrying out work.**	kg	27.059,77	0,45	12.176,90
		TOTAL FOR CONSTRUCTION OF PILES Overpass at km 101+132,33:				**61.846,49**

Overpass at km 102+309,00

No.	Item in Tech. Spec.	Description	Unit	Quantity	Unit rate (€)	Price (€)
				A	B	A x B
	01	**CONSTRUCTION OF PILES**				
		Construction of bored piles of concrete class C30/37. The price covers boring, ~~supply~~ of concrete and concreting, all neccesery equipment and workmanship. Accounting shall be made per m' of a pile. Supply and installation of peinforcement is accounted separately. Piles with diameter of **Ø120** cm. **Price include drilling and installation of concrete, with excavator duty to remove drilled material from the machine and manipulation of the Contractor's equipment.The Client procures the concrete f co the tremie pipes.** **The Client loads and removes drilled material from the construction site.** **Drilling is calculated from the elevation of the working platform.** **Construction of piles shall adopt the technology of full pile casing.** **36x20,0m+12x20,0m**	m'	960,00	131,00	125.760,00
		Drilling between the height of the working platform and the height of the pile. **The first meter is free of charge.**	m'	1,00	100,00	100,00
		~~Supply~~ and installation of reinforcement of class B500B for HW piles. Accounting shall be made per kg of installed reinforcement. **Installation only, the Client procures the reinforcement cages within reach of the drilling machine.** **Reinforcement to be continued the baskets will be continued by overlapping with simple welding or clips.** **Simple welding included in price.** **Clips are provided by the Client.**	kg	82.829,99	0,06	4.969,80
		Welding of reinforcement as per design on jobsite. **To be done by Certified welder.** **Includes making a canopy for carrying out work.**	kg	82.829,99	0,32	26.505,60
		TOTAL FOR CONSTRUCTION OF PILES Overpass at km 102+309,00:				**157.335,40**

Overpass at km 105+797,12

No.	Item in Tech. Spec.	Description	Unit	Quantity	Unit rate (€)	Price (€)
				A	B	A x B
	01	**CONSTRUCTION OF PILES**				
		Construction of bored piles of concrete class C30/37. The price covers boring, ~~supply~~ of concrete and concreting, all neccesery equipment and workmanship. Accounting shall be made per m' of a pile. Supply and installation of peinforcement is accounted separately. Piles with diameter of **Ø120** cm. **Price include drilling and installation of concrete, with excavator duty to remove drilled material from the machine and manipulation of the Contractor's equipment.The Client procures the concrete f- co the tremie pipes.** **The Client loads and removes drilled material from the construction site.** **Drilling is calculated from the elevation of the working platform.** **Construction of piles shall adopt the technology of full pile casing.** **24x15,0m**	m'	360,00	131,00	47.160,00
		Drilling between the height of the working platform and the height of the pile. **The first meter is free of charge.**	m'	1,00	100,00	100,00
		~~Supply~~ and installation of reinforcement of class B500B for HW piles. Accounting shall be made per kg of installed reinforcement. **Installation only, the Client procures the reinforcement cages within reach of the drilling machine.** **Reinforcement to be continued the baskets will be continued by overlapping with simple welding or clips.** **Simple welding included in price**	kg	26.701,63	0,06	1.602,10
		Welding of reinforcement as per design on jobsite. **To be done by Certified welder.** **Includes making a canopy for carrying out work.**	kg	26.701,63	0,45	12.015,73
		TOTAL FOR CONSTRUCTION OF PILES Overpass at km 105+797,12:				**60.877,83**

Overpass at km 108+115,69

No.	Item in Tech. Spec.	Description	Unit	Quantity	Unit rate (€)	Price (€)
				A	B	A x B
	01	**CONSTRUCTION OF PILES**				
		Construction of bored piles of concrete class C30/37. The price covers boring, ~~supply~~ of concrete and concreting, all neccesery equipment and workmanship. Accounting shall be made per m' of a pile. Supply and installation of peinforcement is accounted separately. Piles with diameter of **Ø120** cm. **Price include drilling and installation of concrete, with excavator duty to remove drilled material from the machine and manipulation of the Contractor's equipment.** **The Client procures the concrete f-co the tremie pipes.** **The Client loads and removes drilled material from the construction site.** **Drilling is calculated from the elevation of the working platform.** **Construction of piles shall adopt the technology of full pile casing.** **12x16,0m + 12x18,0m**	m'	408,00	131,00	53.448,00
		Drilling between the height of the working platform and the height of the pile. **The first meter is free of charge.**	m'	1,00	100,00	100,00
		~~Supply~~ and installation of reinforcement of class B500B for HW piles. Accounting shall be made per kg of installed reinforcement. **Installation only, the Client procures the reinforcement cages within reach of the drilling machine.** **Reinforcement to be continued the baskets will be continued by overlapping with simple welding or clips.** **Simple welding included in price.** **Clips are provided by the Client.**	kg	29.656,44	0,06	1.779,39
		Welding of reinforcement as per design on jobsite. **To be done by Certified welder.** **Includes making a canopy for carrying out work.**	kg	29.656,44	0,45	13.345,40
		TOTAL FOR CONSTRUCTION OF PILES Overpass at km 108+115,69:				**68.672,79**

Bridge at km 101+980,62

No.	Item in Tech. Spec.	Description	Unit	Quantity	Unit rate (€)	Price (€)
				A	B	A x B
	01	**CONSTRUCTION OF PILES**				
		Construction of bored piles of concrete class C30/37. The price covers boring, ~~supply~~ of concrete and concreting, all neccesery equipment and workmanship. Accounting shall be made per m' of a pile. Supply and installation of peinforcement is accounted separately. Piles with diameter of **Ø120** cm. **Price include drilling and installation of concrete, with excavator duty to remove drilled material from the machine and manipulation of the Contractor's equipment.** **The Client procures the concrete f-co the tremie pipes.** **The Client loads and removes drilled material from the construction site.** **Drilling is calculated from the elevation of the working platform.** **Construction of piles shall adopt the technology of full pile casing.** **12x17,0m**	m'	204,00	131,00	26.724,00
		Drilling between the height of the working platform and the height of the pile. **The first meter is free of charge.**	m'	1,00	100,00	100,00
		~~Supply~~ and installation of reinforcement of class B500B for HW piles. Accounting shall be made per kg of installed reinforcement. **Installation only, the Client procures the reinforcement cages within reach of the drilling machine.** **Reinforcement to be continued the baskets will be continued by overlapping with simple welding or clips.** **Simple welding included in price.** **Clips are provided by the Client**	kg	18.576,57	0,06	1.114,59
		Welding of reinforcement as per design on jobsite. **To be done by Certified welder.** **Includes making a canopy for carrying out work.**	kg	18.576,57	0,32	5.944,50
		TOTAL FOR CONSTRUCTION OF PILES Bridge at km 101+980,62:				**33.883,09**

Bridge at km 110+351,21

No.	Item in Tech. Spec.	Description	Unit	Quantity	Unit rate (€)	Price (€)
				A	B	A x B
	01	**CONSTRUCTION OF PILES**				
		Construction of bored piles of concrete class C30/37. The price covers boring, ~~supply~~ of concrete and concreting, all neccesery equipment and workmanship. Accounting shall be made per m' of a pile. Supply and installation of peinforcement is accounted separately. Piles with diameter of **Ø120** cm. **Price include drilling and installation of concrete, with excavator duty to remove drilled material from the machine and manipulation of the Contractor's equipment.** **The Client procures the concrete f-co the tremie pipes.** **The Client loads and removes drilled material from the construction site.** **Drilling is calculated from the elevation of the working platform.** **Construction of piles shall adopt the technology of full pile casing.** **24x17,0m**	m'	408,00	131,00	53.448,00
		Drilling between the height of the working platform and the height of the pile. **The first meter is free of charge.**	m'	1,00	100,00	100,00
		~~Supply~~ and installation of reinforcement of class B500B for HW piles. Accounting shall be made per kg of installed reinforcement. **Installation only, the Client procures the reinforcement cages within reach of the drilling machine.** **Reinforcement to be continued the baskets will be continued by overlapping with simple welding or clips.** **Simple welding included in price.** **Clips are provided by the Client.**	kg	36.187,49	0,06	2.171,25
		Welding of reinforcement as per design on jobsite. **To be done by Certified welder.** **Includes making a canopy for carrying out work.**	kg	36.187,49	0,32	11.580,00
		TOTAL FOR CONSTRUCTION OF PILES Bridge at km 110+351,21:				**67.299,25**

RECAPITULATION:	
Enabling work	9.600,00
Gallery and wall at km 82+159,77	305.483,67
Overpass at km 98+149	177.469,64
Overpass at km 101+132,33	61.846,49
Overpass at km102+309	157.335,40
Overpass at km 105+797,12	60.877,83
Overpass at km108+115,69	68.672,79
Bridge at km 101+980,62	33.883,09
Bridge at km110+351,21	67.299,25
GRAND TOTAL (EUR):	**€942.468,16**

Details about the speed and technology of execution will be agreed at the meeting.

In order to perform the offered works, your obligations would be to perform at your own expense:

- Securing a building permit, with the receipt of technical documentation and all other permits
- Forming a working platform with rolled crushed stone with a load capacity of 35 MPa, in order to enable the movement of the machine and mixer to each pile
- Provision of access roads and access ramps for entering and exiting the construction site of the necessary dimensions and capacity
- Organization of the construction site
- Removal of underground and aboveground disturbances (electricity, water, sewerage, PTT, old foundations, etc.)
- Marking of piles
- Timely procurement and delivery of reinforcement baskets to the drilling machine. Baskets must be prepared for continuation by leaving a sufficient length of reinforcement to transfer the force through the flap. During installation, the baskets will be continued by overlapping with simple welding or clips. Connecting means are provided by the Client;
- Timely procurement and delivery of concrete to pipes for concreting. The concrete must have a minimum of 380kg/m of cement, a delayed start of setting of at least 4 hours and be suitable for summer and winter working conditions;
- Pile cropping;
- Timely loading and removal of soil from drillholes;
- Provision of electricity with an installed power of 30kW on each working platform (generator with fule and service for electricity or connection from the electrical network)
- Provision of technical water under pressure (hydrant connection size 2", pressure min. 2.5 bar, flow min. 5 L/s)
- Providing sanitary facilities with regular cleaning and emptying
- Continuity in the execution of work

NAPOMENE:

- Stoppage of the drilling machine due to non-fulfillment of your obligations will be charged at €150/h if the stoppage period is longer than 2 days;
- In case of need for additional work, the prices are:
  - -Excavator up to 20t 60€/h
  - -Crane up to 30t 60€/h
  - -HQ worker 9€/h
  - -LQ worker 7€/h

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* This offer is valid without stamp and signature